

GeDiPNet Cluster 140 -- Enriched GO Terms (Biological Process)

GO term enrichment: Biological Process terms (gene2go, human/tax_id=9606 only), upper-tail hypergeometric test, fold enrichment = (overlap / cluster gene count) / (term gene count / universe size), Benjamini-Hochberg FDR-corrected. Top 15 terms per cluster by q-value. See scripts/build_cluster_go_enrichment.php on gedipnet.bicnirrh.res.in. Data as of: 2026-10-07 03:23:06. · Rows: 15 · Generated: 2026-10-07 21:24:39

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
regulation of heart rate by cardiac conduction	GO:0086091	5	GJA5, SCN5A, KCND3, CAV1, KCNH2	43	15	144.86	1.497e-10	4.131e-8
cardiac conduction system development	GO:0003161	3	GJA5, NPPA, SCN5A	16	15	233.59	2.329e-7	2.459e-5
ventricular cardiac muscle cell action potential	GO:0086005	3	GJA5, SCN5A, KCNH2	17	15	219.85	2.826e-7	2.902e-5
regulation of ventricular cardiac muscle cell membrane repolarization	GO:0060307	3	GJA5, SCN5A, KCNH2	21	15	177.97	5.517e-7	5.080e-5
AV node cell to bundle of His cell communication	GO:0086067	2	GJA5, SCN5A	3	15	830.53	1.803e-6	1.327e-4
regulation of atrial cardiac muscle cell membrane repolarization	GO:0060372	2	NPPA, SCN5A	6	15	415.27	9.004e-6	4.814e-4
SA node cell action potential	GO:0086015	2	GJA5, SCN5A	6	15	415.27	9.004e-6	4.814e-4
regulation of ventricular cardiac muscle cell membrane depolarization	GO:0060373	2	GJA5, SCN5A	7	15	355.94	1.260e-5	6.253e-4
regulation of atrial cardiac muscle cell membrane depolarization	GO:0060371	2	GJA5, SCN5A	10	15	249.16	2.696e-5	1.127e-3
membrane repolarization during cardiac muscle cell action potential	GO:0086013	2	KCND3, KCNH2	10	15	249.16	2.696e-5	1.127e-3
membrane depolarization during action potential	GO:0086010	2	SCN5A, KCNH2	10	15	249.16	2.696e-5	1.127e-3
negative regulation of potassium ion transmembrane transport	GO:1901380	2	CAV1, KCNH2	13	15	191.66	4.667e-5	1.706e-3
membrane repolarization during ventricular cardiac muscle cell action potential	GO:0098915	2	KCND3, KCNH2	13	15	191.66	4.667e-5	1.706e-3
membrane repolarization	GO:0086009	2	KCND3, KCNH2	14	15	177.97	5.442e-5	1.918e-3
potassium ion export across plasma membrane	GO:0097623	2	KCND3, KCNH2	15	15	166.11	6.277e-5	2.133e-3